Take Test: Quiz 3.4

Test Information

Description

Instructions

Multiple Attempts This test allows multiple attempts.

Force Completion This test can be saved and resumed later.

Question Completion Status:

QUESTION 1

1 points Saved

The formula $G(s) = C(sI - A)^{-1}B + D$ is used to do which of the following?

- Convert a state-space model to an n^{th} order differential equation.
- Convert one state-space model into another state-space model.
- Convert a transfer function to a state-space model.
- Convert a state-space model to a transfer function.

QUESTION 2

1 points Saved

The input and output of the transfer function $G(s) = C(sI - A)^{-1}B + D$ are the same as the input and output of the state-space model (A,B,C,D).

- True

False

QUESTION 3

1 points Saved

Which of the following is most correct?

- A state-space model corresponds to just **one** transfer function.
- A state-space model does not correpond to any transfer functions.
- A state-space model corresponds to multiple transfer functions.
- A state-space model corresponds to an infinite number of transfer functions.

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers Save and Submit